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US Army Corps
of Engineers
Huntsville Division

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ECONPACK

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INFORMATION PAPER

HNDSP86-116-ED-ES
JANUARY 1986

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Life Cycle Cost Analysis

20. ABSTRACT (Continue on reverse side if necessary and identify by block number)

This Information Paper discribes the ECONPACK (Economic Analysis Package) System.

DD FORM 1473 , 1 JAN 73 EDITION OF 1 NOV 65 IS OBSOLETE

INFORMATION PAPER
December 1985

ECONPACK
Economic Analysis Package

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A. PURPOSE: The Economic Analysis Package (ECONPACK) Program is an inter-
active computer system which assists the Department of Defense in the prepara-
tion of Life Cycle Costs Analysis Reports, in support of funding requests for
Army Facility Housing (AFH), Military Construction, Army (MCA), and other
construction programs as well as many other types of programs, in accordance
with AR 11-28, "Economic Analysis and Program Evaluation for Resource
Management."

B. HISTORY AND CURRENT STATUS:

The ECONPACK System was developed by the Pacific Ocean Division (POD) in Hawaii
and the Construction Engineering Research Laboratory (CERL) in Champaign,
Illinois. Since initial fielding in 1984, the system has undergone extensive
modification and enhancement.

Huntsville Division, as Assigned Responsible Agency (ARA) for the ECONPACK and
the DD Form 1391 Processor Systems, is tasked to provide fielding, operation,
maintenance, and training to system users worldwide. ECONPACK resides on
the Military Construction Programming, Administration, and Execution (PAX)
Computer System.

The ECONPACK System prepares standardized life cycle cost analysis output for
military construction projects and automatically transfers the output to the
appropriate 1391 Form in the DD Form 1391 Processor. Users of the by the
system include Army installations, major subordinate commands (MASCOMs), major
commands (MACOMs), CE districts and divisions, HQUSACE, and HQDA personnel
involved in the military construction process.

Toll-free or local dial-up capability is provided for the following locations:
Continental U.S., Alaska, Hawaii, Korea, Japan, Puerto Rico, Europe, and the
Canal Zone. There are approximately 350 activities worldwide which currently
access the system.

C. SYNOPSIS OF CAPABILITIES:

Features provided by the system are the following:

1. Allows the user to identify all cost items for all feasible alternatives so the total life cycle costs can be compared. Cost items include new construction costs, renovation costs, expansion costs, maintenance and repair costs, operational costs, relocation costs, and rental costs.

2. Performs economic analysis for Military Construction, Army (MCA) as well as Army Family Housing (AFH), and other major construction funding programs.

3. Provides a primary analysis when analysis is comparing new options with an existing option and will provide a savings to investment ratio.

4. Provides a secondary analysis when analysis is comparing all new options.

5. Allows the user to perform a sensitivity analysis on the quality of the user's data.

6. Provides the output data in formats A, A-1, and B, as required by AR 11-28.

7. Displays the uniform annual costs, initial cost, and net discounted costs.

8. Displays the net discounted percent value graphically.

9. Allows the 'Output to the 1391' to be automatically inserted into an existing DD Form 1391 at the Special Requirements Paragraph number 1 block.

10. Allows for complete independence from the DD Form 1391 Processor. The input and the output report files are maintained on the user's own permanent disk. These files may be kept or erased at any time by the user. It is the user's responsibility to maintain adequate disk space to allow the program to run.

D. REQUIRED USER INPUTS: The user is prompted for all required information. The following information must be prepared by the user before attempting to do an analysis:

> Report title
>
> Organization title
>
> Project title
>
> Objective of analysis
>
> Period of analysis
>
> Start year
>
> Base year
>
> Type project (housing or non-housing)

2

Type analysis (secondary or primary)

Inflation schedule (housing analysis)

Residual schedule (housing analysis)

For each alternative –

List of expense items and yearly values

Salvage value

Source of data

Quantifiable benefits

Non-quantifiable benefits

Titles of sensitivity analyses

Values to change for sensitivity analyses

E. TRAINING:

Training for the ECONPACK is offered regularly by Huntsville Division in three different PROSPECT Program training courses. These training courses consist of lectures and actual hands-on computer training for preparing life cycle cost analysis for MCA and AFH Projects. The point of contact for the ECONPACK System training course is:

Commander
U.S. Army Engineer Division, Huntsville
ATTN: HNDTD-TO (Mr. John Andreoli)
PO Box 1600
Huntsville, AL 35807-4301

Phone: Commercial 202-895-5032
FTS 873-5032
AUTOVON 742-5032

F. COMPUTER TERMINAL REQUIREMENTS:

The ECONPACK System resides on the PAX System, which is located on an IBM 370/3033 computer. The user is responsible for terminal procurement, either through lease or purchase. Procurement is usually handled through the user's local ADP Center.

G. ACCESSING THE SYSTEM:

1. General. To access the system, a user needs: (a) a standard voice grade telephone line; (b) a standard configuration ASCII terminal; and (c) a System User ID/Password.

2. Acquiring a System User ID/Password. A potential user may request a System User ID/Password by notifying HQUSACE (DAEN-ZCP-M).

3. Obligation of Funds. Before a System User ID/Password is approved by the system proponent, an obligation document (usually an Intra-Army Order (IAO)) should be submitted to HQUSACE (DAEN-ZCP-M) to cover the estimated system expenses. Address for HQUSACE (DAEN-ZCP-M) to forward IAO is:

> HQ, USACE
> ATTN: DAEN-ZCP-M
> Pulaski Building
> 20 Massachusetts Ave., NW
> Washington, DC 20314
> Phone: Commercial 202-272-1036
> FTS 272-1036
> AUTOVON 285-1036

4. When requesting a System User ID/Password, please specify the PAX application DD Form 1391 Processor for ECONPACK/DD Form 1391 Processor users or ECONPACK for non DD Form 1391 Processor users. Other PAX options available include CAPCES, Directives, PAXMAIL, FPS, HQIFS, and SAM.

H. BILLING: At the end of each month, the user's local Finance and Accounting Office will receive a bill (SF 1080) for the charges made against the assigned System ID for that particular month. Users will be billed by:

> Humphries Engineering Center Support Activity
> Finance and Accounting Support Office
> ATTN: Ms. Elinor May
> Casey Building, No. 2594
> Fort Belvoir, VA 22060-0558
> Phone: Commercial 202-325-6393
> FTS 325-6393
> AUTOVON 221-6393

I. COSTS:

1. Users will be billed for actual session charges (processing and storage) to their System User ID. Processing is measured in Tymshare Resource Units (TRUs). Storage is in cylinders (212,800 characters/cylinder). In addition, users will be billed a surcharge consisting of PAX System permanent storage costs, customer service, application program and data base maintenance, documentation maintenance, user program assistance, operational improvements to improve service and reduce cost, and some training support. Under the PAX contract, there is no charge for connect time (connect time is log-off less log-on time).

2. The session costs, as seen by an application user, are not expressed in terms of dollars. As a minimum, when the user signs off, the following type message will be displayed: Connect= 01:14:36 TRU= 8.14 TIO= 2,507, Logoff at 13:20:11 CST Friday 12/13/85 where HH:MM:SS is hours, minutes, and seconds, and MM/DD/YY is month, day, and year. Also an estimated percent of budget utilized will appear at the time of sign on.

J. **DOCUMENTATION:** Trainees will be furnished needed references during training. However, if system documentation is required in advance, copies may be obtained by contacting Huntsville Division. An automated copy of the ECONPACK User's Manual is also available at the ECONPACK Help Facility Menu.

K. **OPERATIONAL ASSISTANCE:** Central user assistance is available to provide guidance and direction to field users. To ensure that assistance is always available to truly needy users, it is requested that local options (documentation, co-workers, and ADP center employees) first be exhausted. When these options prove inadequate, the user is encouraged to contact Huntsville Division. Contact may be made use of the electronic mailbox (PAXMAIL), telephone or mail. When contacting Huntsville Division at the phone number below, simply request: "computer assistance for the ECONPACK System." Your call will be transferred to a knowledgeable individual who will properly log-in your request and insure that your inquiry is responded to satisfactorily. All correspondence should be forwarded to:

> Commander
> US Army Engineer Division, Huntsville
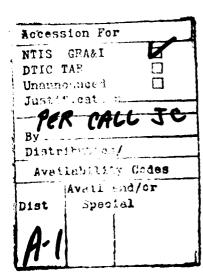> ATTN: HNDED-ES, ECONPACK
> PO Box 1600
> Huntsville, AL 35807
> Phone: Commercial 205-895-5266
> FTS 873-5266
> AUTOVON 742-5266
> PAXMAIL User ID: BIRD

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